

B.Tech	IV Year	L	T	P	To	C
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CE445 QUANTITY ESTIMATION & PROJECT MANAGEMENT LAB**Course Description and Objective:**

Students are required to analyze and design the following structures using software package like MS EXCEL.

Course Outcome:

- Design and estimate civil engineering exercise using Excel.

Quantity Surveying

(At least **SIX** of the following using softwares like MS Excel/ Qty./Road Estimate/ Super Rate analysis etc.)

- Quantity estimation of a single storey residential building (different items).
- Cost estimation of a single storey residential building.
- Quantity estimation of a B.T.Road (different items).
- Cost estimation of a B.T.Road.
- Quantity estimation of a Canal (different items).
- Cost estimation of a Canal.
- Find out the labour requirement and preparing the Rate Analysis for different items of work.
 - C.C
 - R.C.C
 - Brick work
 - Flooring

Project Management

(Any **THREE** of the following using softwares like MS Project / Primavera etc.)

- Preparing the Project management report for a single storey residential building/Road/Canal by using the Bar Chart/Mile stone chart.
- Preparing the Project management report for a single storey residential building by using the network technique (PERT/CPM).
- Preparing the Project management report for a B.T.Road by using the network technique (PERT/CPM).

- Preparing the Project management report for a Canal by using the network technique (PERT/CPM).

Quantity Estimation

(At least **THREE** of the following by using softwares like MS Excel)

- Quantity estimation of RCC roof slab and preparing schedule of bars.
- Quantity estimation of RCC beam and preparing schedule of bars.
- Quantity estimation of RCC Column with foundation footing and preparing schedule of bars.
- Quantity estimation of RCC retaining wall and preparing schedule of bars.